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PATENT AND TRADEMARK OFFICE**

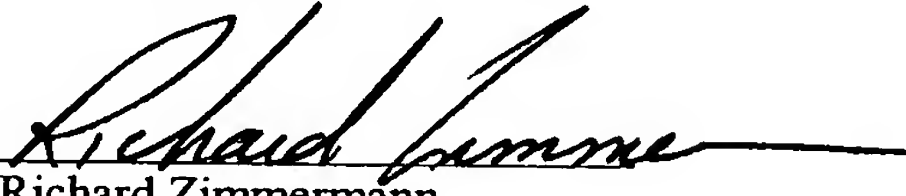
Application of: Alitalo *et al*

Serial No.: To be assigned  
Filed: Herewith

Based on U.S. Provisional Patent  
Application Serial No. 60/262,476 filed  
January 17, 2001

For: VEGFR-3 INHIBITOR  
MATERIALS AND METHODS

Group: To be assigned  
Examiner: To be assigned

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)  
) January 15, 2002  
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)   
) Richard Zimmermann  
)

**STATEMENT PURSUANT TO 37 C.F.R. §§1.821**

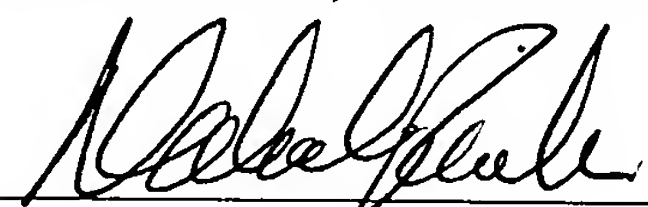
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Washington, DC 20231

Sirs:

I hereby state that the contents of the paper and computer readable copies of the Sequence Listing, submitted herewith and in accordance with 37 C.F.R. §§1.821 are the same and include no new matter.

Respectfully submitted,

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January 15, 2002

28967/37084A

# SEQUENCE LISTING

<110> Alitalo, Kari  
Koivunen, Erkki  
Kubo, Hajime

<120> VEGFR-3 INHIBITOR MATERIALS AND METHODS

<130> 28967/37084A

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<170> PatentIn version 3.0

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20 25 30

Xaa Gly Cys Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa  
35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
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20 25 30

Xaa Gly Cys Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa  
35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
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35 40 45

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35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
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Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Pro	Xaa	Cys	Val	Xaa	Xaa	Xaa	Arg	Cys	
			20					25					30			
Xaa	Gly	Cys	Cys	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Cys	Xaa	Xaa	Xaa	Xaa	Xaa	
		35					40					45				
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	
	50					55					60					

Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Cys
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20 25 30

Xaa Gly Cys Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa  
35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
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Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Pro	Xaa	Cys	Val	Xaa	Xaa	Xaa	Arg	Cys
			20					25					30		

Xaa	Gly	Cys	Cys	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Cys	Xaa	Xaa	Xaa	Xaa	Xaa
		35					40					45			

Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
	50					55					60				

Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
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 20 25 30  
 Xaa Gly Cys Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa  
 35 40 45  
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
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20 25 30

Xaa Gly Cys Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa  
35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
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Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Pro	Xaa	Cys	Val	Xaa	Xaa	Xaa	Arg	Cys	
			20					25					30			
Xaa	Gly	Cys	Cys	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Cys	Xaa	Xaa	Xaa	Xaa	Xaa	
		35					40					45				
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20 25 30

Cys Xaa Gly Cys Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa  
35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
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Cys Xaa Gly Cys Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa  
35 40 45

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 20 25 30  
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 35 40 45  
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
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Cys Xaa Gly Cys Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa  
35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
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20 25 30

Cys Xaa Gly Cys Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa  
35 40 45

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Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Pro Xaa Cys Val Xaa Xaa Xaa Arg  
20 25 30

Cys Xaa Gly Cys Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa  
35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
50 55 60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
65 70 75 80

Xaa Cys

<210> 18

<211> 83

<212> PRT

<213> VEGF homology domain

<220>

<221> SITE

<222> (2)..(24)

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<220>

<221> SITE

<222> (26)..(26)

<223> X is proline, serine or arginine

<220>

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<222> (29)..(31)

<223> X is any amino acid

<220>

<221> SITE

<222> (34) .. (34)

<223> X is glycine, serine, threonine or alanine

<220>

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<222> (38) .. (43)

<223> X is any amino acid

<220>

<221> SITE

<222> (45) .. (82)

<223> X is any amino acid

<400> 18

Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Pro Xaa Cys Val Xaa Xaa Xaa Arg  
20 25 30

Cys Xaa Gly Cys Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa  
35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
50 55 60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
65 70 75 80

Xaa Xaa Cys

<210> 19

<211> 84

<212> PRT

<213> VEGF homology domain

<220>

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<400> 19

Cys	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
1				5					10						15	

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Pro Xaa Cys Val Xaa Xaa Xaa Arg  
 20 25 30  
 Cys Xaa Gly Cys Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa  
 35 40 45  
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 50 55 60  
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 65 70 75 80

Xaa Xaa Xaa Cys

<210> 20

<211> 85

<212> PRT

<213> VEGF homology domain

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<221> SITE

<222> (26)..(26)

<223> X is proline, serine or arginine

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<222> (29)..(31)

<223> X is any amino acid

<220>

<221> SITE

<222> (34)..(34)

<223> X is glycine, serine, threonine or alanine

<220>

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<222> (38)..(43)

<223> X is any amino acid

<220>

<221> SITE

<222> (45)..(84)

<223> X is any amino acid

<400> 20

Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Pro Xaa Cys Val Xaa Xaa Xaa Arg  
20 25 30

Cys Xaa Gly Cys Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa  
35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
50 55 60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
65 70 75 80

Xaa Xaa Xaa Xaa Cys  
85

<210> 21

<211> 86

<212> PRT

<213> VEGF homology domain

<220>

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<220>  
 <221> SITE  
 <222> (29)..(31)  
 <223> X is any amino acid

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 <222> (34)..(34)  
 <223> X is glycine, serine, threonine or alanine

<220>  
 <221> SITE  
 <222> (38)..(43)  
 <223> X is any amino acid

<220>  
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 <222> (45)..(85)  
 <223> X is any amino acid

<400> 21

Cys	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
1				5				10					15		
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Pro	Xaa	Cys	Val	Xaa	Xaa	Xaa	Arg
			20					25					30		
Cys	Xaa	Gly	Cys	Cys	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Cys	Xaa	Xaa	Xaa	Xaa
		35					40					45			
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
	50					55					60				

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
65 70 75 80

Xaa Xaa Xaa Xaa Xaa Cys  
85

<210> 22

<211> 78

<212> PRT

<213> VEGF homology domain

<220>

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<223> X is any amino acid

<220>

<221> SITE

<222> (27)..(27)

<223> X is proline, serine or arginine

<220>

<221> SITE

<222> (30)..(32)

<223> X is any amino acid

<220>

<221> SITE

<222> (35)..(35)

<223> X is glycine, serine, threonine or alanine

<220>

<221> SITE

<222> (39)..(44)

<223> X is any amino acid

<220>

<221> SITE

<222> (46) .. (77)

<223> X is any amino acid

<400> 22

Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Pro Xaa Cys Val Xaa Xaa Xaa  
20 25 30

Arg Cys Xaa Gly Cys Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa  
35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
50 55 60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys  
65 70 75

<210> 23

<211> 79

<212> PRT

<213> VEGF homology domain

<220>

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<222> (2) .. (25)

<223> X is any amino acid

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<221> SITE

<222> (27) .. (27)

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<220>

<221> SITE



<222> (30)..(32)

<223> X is any amino acid

<220>

<221> SITE

<222> (35)..(35)

<223> X is glycine, serine, threonine or alanine

<220>

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<222> (39)..(44)

<223> X is any amino acid

<220>

<221> SITE

<222> (46)..(78)

<223> X is any amino acid

<400> 23

Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Prc Xaa Cys Val Xaa Xaa Xaa  
20 25 30

Arg Cys Xaa Gly Cys Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa  
35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
50 55 60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys  
65 70 75

<210> 24

<211> 80

<212> PRT

<213> VEGF homology domain

<220>

<221> SITE

<222> (2)..(25)

<223> X is any amino acid

<220>

<221> SITE

<222> (27)..(27)

<223> X is proline, serine or arginine

<220>

<221> SITE

<222> (30)..(32)

<223> X is any amino acid

<220>

<221> SITE

<222> (35)..(35)

<223> X is glycine, serine, threonine or alanine

<220>

<221> SITE

<222> (39)..(44)

<223> X is any amino acid

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<222> (46)..(79)

<223> X is any amino acid

<400> 24

Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 1 5 10 15  
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Pro Xaa Cys Val Xaa Xaa Xaa  
 20 25 30  
 Arg Cys Xaa Gly Cys Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa  
 35 40 45  
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 50 55 60  
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys  
 65 70 75 80

<210> 25

<211> 81

<212> PRT

<213> VEGF homology domain

<220>

<221> SITE

<222> (2)..(25)

<223> X is any amino acid

<220>

<221> SITE

<222> (27)..(27)

<223> X is proline, serine or arginine

<220>

<221> SITE

<222> (30)..(32)

<223> X is any amino acid

<220>

<221> SITE

<222> (35)..(35)

<223> X is glycine, serine, threonine or alanine

<220>

<221> SITE

<222> (39)..(44)

<223> X is any amino acid

<220>

<221> SITE

<222> (46)..(80)

<223> X is any amino acid

<400> 25

Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Pro Xaa Cys Val Xaa Xaa Xaa  
20 25 30

Arg Cys Xaa Gly Cys Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa  
35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
50 55 60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
65 70 75 80

Cys

<210> 26

<211> 82

<212> PRT

<213> VEGF homology domain

<220>

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<220>

<221> SITE

<222> (27)..(27)

<223> X is proline, serine or arginine

<220>

<221> SITE

<222> (30)..(32)

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<221> SITE

<222> (35)..(35)

<223> X is glycine, serine, threonine or alanine

<220>

<221> SITE

<222> (39)..(44)

<223> X is any amino acid

<220>

<221> SITE

<222> (46)..(81)

<223> X is any amino acid

<400> 26

Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Pro Xaa Cys Val Xaa Xaa Xaa  
20 25 30

Arg Cys Xaa Gly Cys Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa  
35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
50 55 60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
65 70 75 80

Xaa Cys

<210> 27

<211> 83

<212> PRT

<213> VEGF homology domain

<220>

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<222> (27)..(27)

<223> X is proline, serine or arginine

<220>

<221> SITE

<222> (30)..(32)

<223> X is any amino acid

<220>

<221> SITE

<222> (35)..(35)

<223> X is glycine, serine, threonine or alanine

<220>

<221> SITE

<222> (39)..(44)

<223> X is any amino acid

<220>

<221> SITE

<222> (46) .. (82)

<223> X is any amino acid

<400> 27

Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Pro Xaa Cys Val Xaa Xaa Xaa  
20 25 30

Arg Cys Xaa Gly Cys Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa  
35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
50 55 60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
65 70 75 80

Xaa Xaa Cys

<210> 28

<211> 84

<212> PRT

<213> VEGF homology domain

<220>

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<222> (2) .. (25)

<223> X is any amino acid

<220>

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<222> (27) .. (27)

<223> X is proline, serine or arginine

<220>

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<220>

<221> SITE  
 <222> (35)..(35)  
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<220>

<221> SITE  
 <222> (39)..(44)  
 <223> X is any amino acid

<220>

<221> SITE  
 <222> (46)..(83)  
 <223> X is any amino acid

<400> 28

Cys	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
1				5					10					15		
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Pro	Xaa	Cys	Val	Xaa	Xaa	Xaa	
			20					25					30			
Arg	Cys	Xaa	Gly	Cys	Cys	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Cys	Xaa	Xaa	Xaa	
		35					40					45				
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
	50					55					60					
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
65					70					75						80
Xaa	Xaa	Xaa	Cys													

<210> 29

<211> 85

<212> PRT



<213> VEGF homology domain

<220>

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<220>

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<222> (30)..(32)

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<220>

<221> SITE

<222> (35)..(35)

<223> X is glycine, serine, threonine or alanine

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<221> SITE

<222> (39)..(44)

<223> X is any amino acid

<220>

<221> SITE

<222> (46)..(84)

<223> X is any amino acid

<400> 29

Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
1 5 10 15  
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Pro Xaa Cys Val Xaa Xaa Xaa  
20 25 30  
Arg Cys Xaa Gly Cys Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa  
35 40 45  
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
50 55 60  
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
65 70 75 80  
Xaa Xaa Xaa Xaa Cys  
85

<210> 30

<211> 86

<212> PRT

<213> VEGF homology domain

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<222> (27)..(27)

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<223> X is any amino acid

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<222> (35)..(35)

<223> X is glycine, serine, threonine or alanine

<220>

<221> SITE

<222> (39)..(44)

<223> X is any amino acid

<220>

<221> SITE

<222> (46)..(85)

<223> X is any amino acid

<400> 30

Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Pro Xaa Cys Val Xaa Xaa Xaa  
20 25 30

Arg Cys Xaa Gly Cys Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa  
35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
50 55 60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
65 70 75 80

Xaa Xaa Xaa Xaa Xaa Cys  
85

<210> 31

<211> 87

<212> PRT

<213> VEGF homology domain

<220>

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<220>  
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 <222> (27)..(27)  
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<220>  
 <221> SITE  
 <222> (30)..(32)  
 <223> X is any amino acid

<220>  
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 <222> (35)..(35)  
 <223> X is glycine, serine, threonine or alanine

<220>  
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 <222> (39)..(44)  
 <223> X is any amino acid

<220>  
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 <222> (46)..(86)  
 <223> X is any amino acid

<400> 31

Cys	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
1				5					10					15	
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Pro	Xaa	Cys	Val	Xaa	Xaa	Xaa
			20					25					30		
Arg	Cys	Xaa	Gly	Cys	Cys	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Cys	Xaa	Xaa	Xaa
		35					40					45			

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
50 55 60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
65                      70                      75                      80

Xaa Xaa Xaa Xaa Xaa Xaa Cys  
85

<210> 32

<211> 8

<212> PRT

<213> isolated polypeptide

<220>

<221> SITE

<222> (1) . . (1)

<223> X is glycine or a conservative substitution

<220>

<221> SITE

<222> (2) . . (2)

<223> X is tyrosine or a conservative substitution

<220>

<221> SITE

<222> (3) .. (3)

<223> X is tryptophan or a conservative substitution

<220>

<221> SITE

$\langle 222 \rangle \quad (4) \dots (4)$

<223> X is leucine or a conservative substitution

<220>

<221> SITE

<222> (5) .. (5)

<223> X is threonine or a conservative substitution

<220>

<221> SITE

<222> (6) .. (6)

<223> X is isoleucine or a conservative substitution

<220>

<221> SITE

<222> (7) .. (7)

<223> X is tryptophan or a conservative substitution

<220>

<221> SITE

<222> (8) .. (8)

<223> X is glycine or a conservative substitution

<400> 32

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
1 5

<210> 33

<211> 10

<212> PRT

<213> isolated peptide

<220>

<221> SITE

<222> (2) .. (2)

<223> X is glycine or a conservative substitution

<220>

<221> SITE  
<222> (3) .. (3)  
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<220>  
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<220>  
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<220>  
<221> SITE  
<222> (9) .. (9)

<223> X is glycine or a conservative substitution

<400> 33

Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys  
1 5 10

<210> 34

<211> 10

<212> PRT

<213> isolated peptide

<220>

<221> SITE

<222> (1)..(1)

<223> X is any amino acid

<220>

<221> SITE

<222> (10)..(10)

<223> X is any amino acid

<400> 34

Xaa Gly Tyr Trp Leu Thr Ile Trp Gly Xaa  
1 5 10

<210> 35

<211> 10

<212> PRT

<213> isolated peptide

<400> 35

Cys Gly Tyr Trp Leu Thr Ile Trp Gly Cys  
1 5 10

<210> 36

<211> 9



<212> PRT

<213> peptide

<400> 36

Ser Gly Tyr Trp Trp Asp Thr Trp Phe  
1 5

<210> 37

<211> 9

<212> PRT

<213> peptide

<400> 37

Ser Cys Tyr Trp Arg Asp Thr Trp Phe  
1 5

<210> 38

<211> 9

<212> PRT

<213> peptide

<400> 38

Lys Val Gly Trp Ser Ser Pro Asp Trp  
1 5

<210> 39

<211> 9

<212> PRT

<213> peptide

<400> 39

Phe Val Gly Trp Thr Lys Val Leu Gly  
1 5

<210> 40

<211> 9

<212> PRT

<213> peptide

<400> 40

Tyr Ser Ser Ser Met Arg Trp Arg His  
1 5

<210> 41

<211> 9

<212> PRT

<213> peptide

<400> 41

Arg Trp Arg Gly Asn Ala Tyr Pro Gly  
1 5

<210> 42

<211> 9

<212> PRT

<213> peptide

<400> 42

Ser Ala Val Phe Arg Gly Arg Trp Leu  
1 5

<210> 43

<211> 9

<212> PRT

<213> peptide

<400> 43

Trp Phe Ser Ala Ser Leu Arg Phe Arg  
1 5

<210> 44

<211> 8

<212> PRT

<213> peptide

<400> 44

Trp Gln Leu Gly Arg Asn Trp Ile  
1 5

<210> 45

<211> 8

<212> PRT

<213> peptide

<400> 45

Val Glu Val Gln Ile Thr Gln Glu  
1 5

<210> 46

<211> 8

<212> PRT

<213> peptide

<400> 46

Ala Gly Lys Ala Ser Ser Leu Trp  
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<210> 47

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Arg Ala Leu Asp Ser Ala Leu Ala  
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Tyr Gly Phe Leu Trp Gly Met  
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<211> 7

<212> PRT

<213> peptide

<400> 50

Ser Arg Trp Arg Ile Leu Gly  
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<213> peptide

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His Lys Trp Gln Lys Arg Gln  
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Met Asp Pro Trp Gly Gly Trp  
1 5

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Arg Lys Val Trp Asp Ile Arg  
1 5

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<400> 54

Val Trp Asp His Gly Val  
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<400> 55

Cys Trp Gln Leu Gly Arg Asn Trp Ile Cys  
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<400> 56

Cys Val Glu Val Gln Ile Thr Gln Glu Cys  
1 5 10

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<400> 57

Cys Ala Gly Lys Ala Ser Ser Leu Trp Cys  
1 5 10

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Cys Arg Ala Leu Asp Ser Ala Leu Ala Cys  
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Cys Tyr Gly Phe Glu Ala Ala Trp Cys  
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Cys Tyr Gly Phe Leu Trp Gly Met Cys  
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Cys Ser Arg Trp Arg Ile Leu Gly Cys  
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Cys Met Asp Pro Trp Gly Gly Trp Cys  
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Cys Arg Lys Val Trp Asp Ile Arg Cys  
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<223> X at position 4-6 is any amino acid

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<220>

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<222> (4)..(6)

<223> X is any amino acid

<220>

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<222> (8)..(8)

<223> X is any amino acid

<400> 68

Gly Tyr Trp Xaa Xaa Xaa Trp Xaa  
1 5

<210> 69

<211> 13

<212> PRT

<213> peptide

<400> 69

Cys Gly Gln Met Cys Thr Val Trp Cys Ser Ser Gly Ser  
1 5 10

<210> 70

<211> 9

<212> PRT

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<222> (1)..(9)

<223> X is any amino acid

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Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
1 5

<210> 71

<211> 13

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<220>

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<220>  
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 <222> (10)..(12)  
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<400> 71

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<210> 72  
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<220>  
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<400> 72

Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys  
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<210> 73  
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<220>

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<222> (5)..(7)

<223> X is any amino acid

<220>

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<222> (9)..(9)

<223> X is any amino acid

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Cys Gly Tyr Trp Xaa Xaa Xaa Trp Xaa Cys  
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<210> 74

<211> 39

<212> DNA

<213> primer

<220>

<221> misc\_feature

<222> (19)..(20)

<223> N= equimolar mixture of A, G, C and T

<220>

<221> misc\_feature

<222> (21)..(21)

<223> N= equimolar mixture of G and T

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cactcggccg acggggctnn nggggcccgt. ggggccgaa

39

<210> 75

<211> 18

<212> DNA

<213> synthetic primer

<400> 75

ttcggcccca gcggcccc

18

<210> 76

<211> 33

<212> DNA

<213> synthetic primer

<400> 76

cctgggatcc ctggtgagtg gctactccat gac

33

<210> 77

<211> 32

<212> DNA

<213> synthetic primer

<400> 77

gatgaagaga tcttcatgca caatgacctc gg

32

<210> 78

<211> 29

<212> DNA

<213> synthetic primer

<400> 78

aggctcgagg atcctcggcc gacggggct

29

<210> 79

<211> 27

<212> DNA

<213> synthetic primer

<400> 79  
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27

<210> 80

<211> 19

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<213> peptide

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<222> (2)..(8)

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<222> (11)..(18)

<223> X is any amino acid

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Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Cys Xaa Xaa Xaa Xaa Xaa Xaa  
1 5 10 15

Xaa Xaa Cys